

ABSTRACT OF THE DISCLOSURE

A data allocator allocates $(N \times kV \times kH)$ -byte source data distributively in N (kV bytes \times kH bytes) two-dimensional arrays and sends the data to a V coder and an H coder. The V coder codes each column of the two-dimensional arrays according to an (nV, kV) code V , and the H coder codes each row of the two-dimensional arrays according to an (nH, kH) code H . The V and H coders send redundant data to a data allocator. The data allocator allocates the redundant data in a memory to obtain N (nV bytes \times nH bytes) product-code codewords and outputs each row of the product-code codewords in an alternating manner for the N product-code codewords.

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